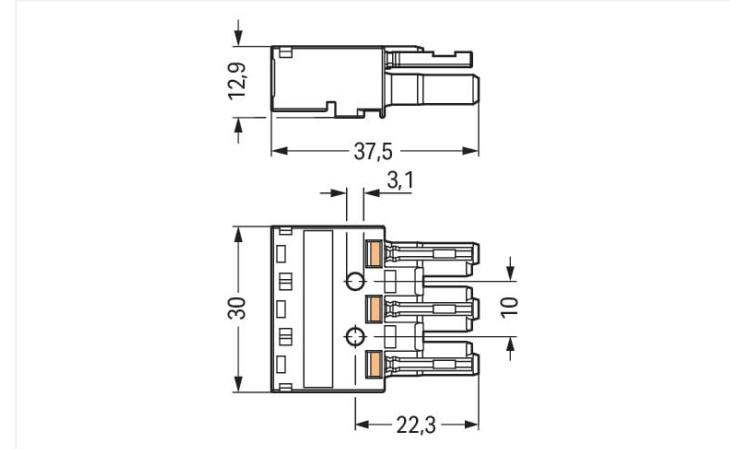




Color: orange



Dimensions in mm

Female connector/socket WINSTA® MIDI with protection type IP20

The WINSTA® MIDI female connector/socket rated current 25 A supports fast, reliable installation. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to various requirements in next to no time. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. The pluggable installation connector is protected against ingress by solid objects in accordance with protection type IP20 (When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is also suitable for high power loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in can be found in a variety of projects you can use for quick, easy, flexible, and secure installation.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Now you can also cut installation costs without compromising quality and safety: The WINSTA® MIDI pluggable installation connector with marking reduces the need for servicing and prevents unnecessary downtime.

- protection against mismatching eliminates errors
- for automation controllers
- flexible installation to save space
- quick replacement of defective units during ongoing operation

Electrical data

Ratings per IEC/EN	
Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 kV
Rated current	25 A
Legend (ratings)	(III / 3) △ Overvoltage category III / Pollution degree 3

Ratings per UL 1977	
Note for the US market	Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 16 A and voltages up to 600 V. For further information, please contact your local sales office.
Rated voltage (UL 1977)	600 V
Rated current UL 1977	23 A

General

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket
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Connection data

Connection points	6
Total number of potentials	3

Connection 1	
Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm ² / 12 AWG
Solid conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Solid conductor; push-in termination	1.5 ... 4 mm ² / 16 ... 12 AWG
Stranded conductor	0.5 ... 2.5 mm ² / 20 ... 14 AWG
Fine-stranded conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ² / 20 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1.5 mm ² / 16 AWG
Strip length	9 mm / 0.35 inches
Pole number	3
Conductor entry direction to mating direction	0 °

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	30 mm / 1.181 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

Mechanical Data	
Application	LON bus
Coding	R
Variable coding	No
Marking	LON LON S
Potential marking	LON LON S
Mating force of a plug-in connection	approx. 20 ... 70 N (depending on pole number)
Retention force of a plug-in connection	Locked: > 80 N
Unmating force of a plug-in connection	Unlocked: approx. 20 ... 70 N (depending on pole number)
Number of mating cycles	200, without resistive load
Protection type	IP20; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)

Plug-in connection	
Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All WINSTA® components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered d.) plugging one pole
Locking lever	Can be retrofitted
Locking of plug-in connection	Locking lever
Note on locking system	All connectors for mounted installations (snap-in versions for lighting fixtures or devices, all types of PCB and distribution connectors) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for flying leads (plug/socket).

Material Data

Note (material data)	Information on material specifications can be found here
Color	orange
Cover color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.172 MJ
Weight	9.5 g

Environmental requirements

Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on continuous operating temperature	Insulating parts for temperatures ≤ 105 °C

Commercial data

eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918252713
Customs tariff number	85366990990

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61535	71-123228
CCA DEKRA Certification B.V.	IEC 61535	NL-84761
cURus Underwriters Laboratories Inc.	UL 1977	E45171

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	19-HG1868589-PDA
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
LR Lloyds Register	IEC 61984	LR22429487TA

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 770-1343

Documentation

Bid Text

770-1343	19.02.2019	xml 3.01 KB	
770-1343	08.06.2015	doc 23.50 KB	

CAD/CAE-Data

CAE data

EPLAN Data Portal 770-1343	
WSCAD Universe 770-1343	

1 Compatible Products

1.1 System counterpart

1.1.1 Distribution connector

[Item No.: 770-667](#)

T-distribution connector; 3-pole; Cod. R; 1 input; 2 outputs; 2 locking levers; orange

[Item No.: 770-670](#)

T-distribution connector; 3-pole; Cod. R; 1 input; 2 outputs; 3 locking levers; for flying leads; orange

1.1.2 Male connector/plug

[Item No.: 770-1353](#)Plug; 3-pole; Cod. R; 4,00 mm²; orange[Item No.: 770-2353](#)Snap-in plug; 3-pole; Cod. R; 4,00 mm²; orange

1.2 Required Accessories

1.2.1 Locking system

1.2.1.1 Locking system



Item No.: 770-101

Locking lever; for flying leads; for manual operation; black

Item No.: 770-121

Locking lever; for flying leads; for manual operation; white

Item No.: 770-111

Locking lever; for flying leads; for tool operation; black

Item No.: 770-131

Locking lever; for flying leads; for tool operation; white

1.2.2 Strain relief

1.2.2.1 Strain relief housing



Item No.: 770-503

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black

Item No.: 770-513

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white

1.3 Optional Accessories

1.3.1 Cover

1.3.1.1 Cover



Item No.: 770-201

Lockout cap; 12-pole, separable; for sockets; Plastic; black

Item No.: 770-221

Lockout cap; 12-pole, separable; for sockets; Plastic; white

1.3.2 Installation

1.3.2.1 Snap-in frame



Item No.: 770-318

Snap-in frame; 3-pole; 1.0 ... 3.0 mm; black

Item No.: 770-338

Snap-in frame; 3-pole; 1.0 ... 3.0 mm; white

1.3.3 Marking

1.3.3.1 Marker



Item No.: 770-450/000-006

Marker card; Plastic; blue



Item No.: 770-450/000-001

Marker card; Plastic; green



Item No.: 770-450/000-012

Marker card; Plastic; orange



Item No.: 770-450/000-005

Marker card; Plastic; red



Item No.: 770-450

Marker card; Plastic; white



Item No.: 770-450/000-002

Marker card; Plastic; yellow

1.3.4 Strain relief

1.3.4.1 Strain relief housing

[Item No.: 770-503/021-000](#)

Strain relief housing; 3-pole; for 1 cable;
9.0 ... 13.0 mm; 71 mm; black

[Item No.: 770-513/021-000](#)

Strain relief housing; 3-pole; for 1 cable;
9.0 ... 13.0 mm; 71 mm; white

[Item No.: 770-503/023-000](#)

Strain relief housing; 3-pole; for 2 cables;
4.5 ... 8.0 mm; 55 mm; black

[Item No.: 770-513/023-000](#)

Strain relief housing; 3-pole; for 2 cables;
4.5 ... 8.0 mm; 55 mm; white

[Item No.: 770-513/032-000](#)

Strain relief housing; 3-pole; for 2 cables;
8.0 ... 11.5 mm; 55 mm; white

[Item No.: 770-503/035-000](#)

Strain relief housing; 3-pole; with locking
clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm;
black

[Item No.: 770-503/038-000](#)

Strain relief housing; 3-pole; with locking
clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm;
black

[Item No.: 770-513/035-000](#)

Strain relief housing; 3-pole; with locking
clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm;
white

[Item No.: 770-513/038-000](#)

Strain relief housing; 3-pole; with locking
clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm;
white

[Item No.: 770-503/032-000](#)

Strain relief housing; 3-pole; with locking
clip; for 2 cables; 8.0 ... 11.5 mm; 55 mm;
black

1.3.5 Tool

1.3.5.1 Operating tool

[Item No.: 770-383](#)

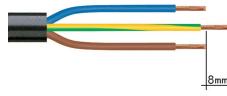
Operating tool; 3-way; green

[Item No.: 210-719](#)

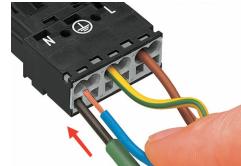
Operating tool; Blade: 2.5 x 0.4 mm; with a
partially insulated shaft

Installation Notes

Conductor termination



1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



To terminate fine-stranded conductors,
open the clamping unit via screwdriver
(2.5 mm blade width) and insert a strip-
ped conductor until it hits the backstop.

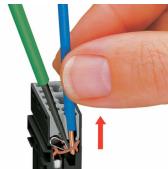


Insert the stripped solid conductor until it
hits the backstop.



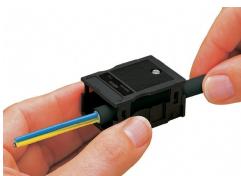
To terminate fine-stranded conductors,
open the clamping unit via screwdriver
(2.5 mm blade width) and insert a stripped
conductor until it hits the backstop.

Conductor removal

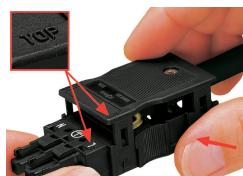


To remove the conductor, actuate the
clamp via screwdriver (2.5 mm blade
width) and pull out the conductor.

Installation



We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



Latch the strain relief housing onto the plug/socket. Note the "TOP" inscription.



Prepare strain relief housing by snapping together upper and bottom part.



Tighten strain relief screw with screwdriver (2.5 mm blade width).